

ABSTRACT

The wet-gas desulfurizing apparatus according to this invention removes the oxides of sulfur, such as SO_2 , from combustion exhaust gas by scrubbing the combustion exhaust gas with an absorption liquid which contains an alkali. It includes: 1) a branch pipe to circulate the absorption liquid which is inserted into a collection tank, of which the end discharges the absorption liquid into the collection tank, and the branch pipe having an internal diameter of D ; and 2) an air-blown pipe to inject air into the branch pipe, of which the end is inserted at an insertion point located between $3D$ and $10D$ from the discharge end of the branch pipe. The end of the air-blown pipe is inserted into the branch pipe, and has an appearance of a semicircular trough facing downstream toward the collection tank. As an alternative, an orifice is provided in the branch pipe, upstream from the insertion point where the air-blown pipe is inserted into the branch pipe, and the insertion point is disposed in the region of negative pressure created by the orifice.